

THE U.S. SPACE TRAGEDY: The painstaking search for explanations may take months

Houston: 'Oh My God, That's the Capsule!'

HOUSTON — There were about a dozen people, visiting reporters and National Aeronautics and Space Administration public affairs officers, watching the two big closed-circuit television screens showing the liftoff of the space shuttle.



After the shuttle exploded, two astronauts, Lieutenant Colonel Frederick D. Gregory, left, and Richard O. Covey, reacted to the computer data at the space center in Houston.

The Final Moments

NEW YORK — The last flight of the shuttle Challenger lasted 74 seconds. Here is the National Aeronautics and Space Administration's transcript of Challenger's final moments, before and after liftoff.

Experts Baffled on Lack Of a Computer Warning

(Continued from Page 1) L. John Lawrence, a spokesman for the National Aeronautics and Space Administration at the Houston space center, "In all the models, the data show a deterioration before failure. You begin to see pressures change, or temperatures, or valve failures or voltage or hydraulic changes. Things begin to happen. Here, nothing happened."

Disaster Disrupts Plans for Shuttle's Busiest Year

(Continued from Page 1) Thomas O. Paine, former NASA administrator and now chairman of the National Commission on Space, said that the loss of one-fourth of U.S. shuttle capacity "will put a lot of pressure on our entire launch capacity, and something is going to have to slip."

Other congressmen, eager to find programs that can be cut or delayed in order to comply with the deficit-reduction requirements of the Gramm-Rudman-Hollings law, are expected to use the accident as a justification for slowing down the proposed space station, which is meant to be carried aloft by the shuttle in the early 1990s.

Leader's Job: Share Grief, Redirect It

(Continued from Page 1) dressed Tuesday night is a need as old as organized societies. In crises past, it has been successfully met by the celebration of heroes, more martyrs, by the defiant rhetoric of Charles de Gaulle after the fall of France and Winston Churchill during the Blitz, even by the popularization of gritty, bittersweet songs like "Tipperary" or "Praise the Lord and Pass the Ammunition."

Fuel Tank Suspected As a 'Potential Bomb'

(Continued from Page 1) One set of the stresses resulting from the move to full power centered on points at both sides of the intertank, to which the solid-fuel booster rockets were attached. Another stress point involving the intertank is the forward attachment point connecting the tank to the nose of the orbiter.

Disaster Shouldn't Set Back Pentagon's Plans, Aides Say

By Walter Pincus and Michael Weisskopf Washington Post Service WASHINGTON — Administration and congressional sources say they do not expect the Pentagon's portion of the space program to be seriously set back by the explosion of the Challenger space shuttle unless the accident investigation determines that fundamental changes are required in the remaining three shuttles.

Some Wreckage From Challenger Shuttle Retrieved

(Continued from Page 1) ing representatives of the space industry, the air force and other experts, will be convened later. The investigation could take months, just as it did after America's only other space program tragedy, the launch pad fire that killed three Apollo astronauts 19 years ago this week. The Apollo fire, which came during a test, grounded astronauts for 21 months.

White House flag at half staff

The White House flag at half staff. The Washington Monument is in the background.

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INTERNATIONAL Herald Tribune

Published With The New York Times and The Washington Post

Shuttle Was Never Routine

"Oh, the humanity!" Those words, spoken by a weeping radio announcer as he witnessed the explosion and fire that consumed the dirigible Hindenburg nearly 50 years ago, must have come to the minds of some people Tuesday as they watched the terrible short flight of the space shuttle Challenger...

printed before the flight? They were the work of a weeping radio announcer as he witnessed the explosion and fire that consumed the dirigible Hindenburg nearly 50 years ago, must have come to the minds of some people Tuesday as they watched the terrible short flight of the space shuttle Challenger...

Promise of Peace in Uganda

Uganda's capital had good reason to cheer the triumph of Yoweri Museveni and his insurgent army. At the least, the flight of government soldiers means a break in the military deadlock that left Kampala besieged for months and disrupted simple daily routines...

rule for the regular forces he has just defeated. Still, transcending Uganda's tribalism is a formidable challenge. Mr. Museveni's immediate entourage comes mainly from the southern Banyankole tribe; his defeated opponents drew their support from tribes in the north...

The Irish Accord Holds

Last week's election in Northern Ireland failed to scuttle the new British-Irish accord to seek a progressive resolution of the province's communal strife. It gave diehard Protestants the photo opportunity they craved — a chance to wave placards insisting that "Ulster Says No!"

the accord gives Ireland in addressing the grievances of Ulster's 600,000 Catholics. What they overlook is the provision that binds the Irish Republic to respect the North's right to remain British, so long as its majority desires...

Other Opinion

Space Research Must Continue
The rapid succession of its flights — nine last year and 15 planned for this year — made us believe that the shuttle was as safe as the planes of the same name that ferry passengers between cities on the east and west coasts of the United States...

other person would have said the same thing. Accidents involving aircraft have ever led to the use of air transport being questioned. The accident which led to the death of three astronauts burned alive in their capsule did not stop the race to the moon...



How nice to get back to traditional values.

A Bretton Woods on Oil Prices Should Be Arranged

WASHINGTON — Since at least the close of World War II, the world's economic powers have agreed in principle that long-wolf tariff and currency policies can be mutually harmful, even suicidal. At Bretton Woods and elsewhere, arrangements were made to cushion, if not cure, the abrasions of competitiveness...

By Edwin M. Yoder Jr.
The baronage spirit of 1973-1979 has since spread throughout oildom. The Thatcher government in Britain has abolished the government agency designed to pace Britain's North Sea production with an eye to its impact on market conditions...

loans to oil exporters and oil prospectors. One might suppose players in this dangerous game would start weighing the merits of consultation, if not cooperation, as an alternative. The barrier is as much psychological as economic and will be difficult to cross...

U.S. Aim in Philippines Is Worthy, but Implausible

PARIS — The Reagan administration's abandonment of President Ferdinand E. Marcos — its "distancing" of the United States during these final days of his campaign — ought to surprise no one. He has become too awful to support...

By William Pfaff
Today's situation in the Philippines is worsened by that sense of victimization, linked to dependence upon the United States, felt by many Filipinos. This is a form of post-colonial political pathology. The right is convinced that the United States will keep the left from winning...

of States having laid down what Americans, in a more innocent day, were pleased to call the white man's burden. It is noteworthy that a few people in Washington have already begun to do just that. Prudent men have begun to consider what would be involved in an American military redeployment to a politically more secure perimeter in the South West Pacific...

Bold Moves Are Needed by Lugar's Team

WASHINGTON — The greatest mistake that the official American team sent to monitor the Philippine elections would be to move too cautiously in its important mission of freedom. The 40-member delegation, led by Senator Richard G. Lugar at the suggestion of President Reagan, could make a crucial difference for the future of democracy in the Philippines...

By Raul S. Manglapus
The mission could confine itself to visiting a few polling places and issuing general expressions of hope that the vote will be fairly counted. That, certainly, would be the least it could do. It would also open the team to the charge already anticipated in Congress and elsewhere that it had merely given a stamp of approval to a Marcos victory achieved with questionable political and military advantage...

that future American support for the Philippines will depend on fair elections. The American team could test Mr. Marcos's protestations of fairness by asking that it be allowed to make these appeals in all media, including television. Mr. Marcos, and even some conscientious members of the opposition might then cry "intervention."

FROM OUR JAN. 30 PAGES, 75 AND 50 YEARS AGO
1911: Fire Starts in Versailles Church
VERSAILLES, France — Fire almost destroyed the English Church in the rue du Peintre-Lehran here during the early hours (on Jan. 29). The origin of the blaze, which broke out about one o'clock in the morning, is unknown. The church, which was built with the authority and under the initiative of the Bishop of London, is situated only a short distance from the Chateau de Versailles, and, as the fire spread rapidly, considerable anxiety was felt. The volunteer firemen, however, were helped by soldiers from the barracks and thus were able to prevent the flames from spreading.

1936: British Fear for Flying King
LONDON — An indignant protest was the reply of the British aircraft industry to the suggestion that King Edward VIII had had the right to continue to use aircraft as his principal means of transportation in view of the risk involved. For years the King has been an aviation enthusiast and an able pilot. He once flew the giant Dornier-Wal seaplane Do-X, then the world's largest, with a skill that won commendation from its regular pilot. Now, many persons feel that he should be urged not to risk his royal person in the air. Whether he will yield is yet to be answered.

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LETTERS TO THE EDITOR
Cassettes for Amateurs
Regarding the opinion column "Thing of the Year: The Videocassette" (Dec. 30) by Tom Shales:
Mr. Shales's article is entertainingly misleading, but misleading nonetheless. He seems to want us to believe that Beta and VHS cassettes are things of the past, and camcorders as well. He may be accurate. But what he does not make clear is that he is talking exclusively of "amateur" material and equipment, for use by amateurs. By these standards, the 8-millimeter video cassette is probably superior to Beta and VHS equivalents, shrewdly on the basis of size. But it is questionable whether video film distributors will begin providing libraries of popular feature films for home use on 8-millimeter cassettes.

U.S. Ignores Lessons of Space Junk

By Daniel S. Greenberg
WASHINGTON — An iron rule of aerospace politics dictates that whatever can be done should be done — especially if the costs are colossal and the payoff negligible. The evidence is there in countless gleaming turkeys, including a draft U.S. program in the 1950s that consumed \$1 billion in a futile try to build an atomic-powered plane. Then there's the supersonic Concorde, the red-rink spewing chariot of the rich financed by British and French taxpayers. And now there is the space shuttle, a high-wire act that ran up and tuck with Murphy's law until Tuesday's tragic event.

Oversold and unable to meet the launch schedule promised to Congress, the shuttle was already in such deep political trouble that NASA gave rise to two influential congressmen to shore up support. The reality was dawning that cheap unmanned launch vehicles could do the shuttle's work without risk of life. Surely lessons will be learned from these grand aerospace debacles. You'd think so. But hang on, another one's on the way, and it may well overshadow all previous ventures in high-tech megalomania.

It's the aerospace plane, billed as providing 12-minute coast-to-coast service, and 90 minutes travel to anywhere on earth. Designed to take off like a conventional aircraft and then ride on the very top of earth's atmosphere at 30 times the speed of sound, the plane is years and countless billions of dollars away. But despite looming austerity in federal spending, the Pentagon and NASA are quietly planning an initial \$500 million startup for the project. Military use is envisaged as the prime justification for the plane, with civilian passenger versions coming next.

A confident forecast of a favorable government decision on the project was made in December by George A. Keyworth II, then White House science adviser. "I think you'll see research accelerating dramatically over the next two to three years," he said, "and a rapid thrust to get a prototype flying at the turn of the decade." Industry is excitedly interested, since it would get the bulk of the money for designing and building the aerospace plane. But apart from financing a few relatively inexpensive studies to keep abreast of technical possibilities, the aerospace industry remains a faithful client of the welfare state, waiting for Washington to bankroll the venture.

The grating irony of this latest episode in high-tech hubsterism is that it comes at a time when crucial sectors of the nation's commercial aviation network are rattling like an old flyover, mainly for lack of federal money. A short-staffed Federal Aviation Administration is increasingly hard-pressed to manage traffic control in the nation's airways. Meanwhile the FAA is struggling to keep up with serious problems of competent staffing and maintenance at the small commuter airlines spawned by deregulation. Congress is yet to take a close look at the newest celestial boonoggle. But when it does, it's safe to expect that the proponents will argue that the aerospace plane will initially be a military craft, and therefore must be judged under the rule of anything for national security. But to the era of ever-smaller, faster and more elusive missiles, what's the military value of 90 minutes to anywhere on earth? And even if the aerospace plane could maneuver to space, as its backers claim, what's the value of that when far cheaper and highly capable unmanned craft could do the same? The junkyards of aerospace are filled with gold-plated relics from past forays against good sense and the U.S. Treasury. But politicians are rarely unable to resist the warnings of doomsday consequences that accompany demands for money for the next wondrous undertaking.

One of the few times they did so was in 1970, when aerospace enthusiasts unsuccessfully sought to incite a political stampede in support of an American supersonic transport. Congress voted down the French and British. The European partners foolishly spent heavily on Concorde, and eventually sold six copies before closing the assembly line. One wonders what would have happened if France and Britain — now both industrial laggards — had invested those billions in the onrushing electronics revolution, as Japan was then doing. The writer is editor and publisher of Science & Government Report, an independent newsletter.

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LETTERS TO THE EDITOR
Alcohol and the Brain
Your item on the warnings of the Food and Drug Administration concerning the link between the drug aspirin and Reye's Syndrome in children and the agreement in principle with the manufacturers is interesting. (For the Record, Nov. 18.)
It would also be of interest to know how far the FDA has got with brewers and distillers on warning about that other common household drug — alcohol — and the link with Korsakoff's Syndrome, which generally results in brain damage. WILLIAM R. MCCOY, Saint-Julien-en-Genevois, France.

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South Korea's Chun Stages Strategic Retreat To Retirement in 1988

By Jim Hoagland
Washington Post Service

SEOUL — President Chun Doo Hwan is staging a strategic retreat from the political office that he seized five years ago, looking over his shoulder at the ghosts of his predecessors and at the uncertain American record of dealing with allies who get into trouble.

This impression emerged from a three-hour visit to the Blue House, as the South Korean presidential mansion is known.

Although Mr. Chun is far too cautious and too diplomatic to state his plans in such stark terms, his comments clearly reflect these concerns.

Known here for his ability to conceive and carefully follow a long-term plan while keeping it to himself, Mr. Chun emphasizes to visitors that his planned retirement in 1988 would mark the first peaceful transfer of power since South Korea became a republic in 1948. All of his predecessors have been pushed out of office or, in one case, assassinated. If he can make it safely to 1988, Mr. Chun said, he will observe the seven-year limit he imposed upon himself in 1981.

"You must follow the rules," Mr. Chun said with a no-nonsense demeanor. He puffed on a silver cigarette holder and spoke softly, but with clear authority. As he talked, five aides sat nearby taking down each word.

Mr. Chun was a career military officer who specialized in intelligence work. As a leader, he not only demands that his countrymen follow his rules, but that they not question them. Mr. Chun has closed down newspapers and magazines critical of his government, imprisoned political opponents and sent troops to put down rebellious students through violent means.



Prime Minister Shimon Peres, right, at the Berlin Wall with West Berlin's governing mayor, Eberhard Diepgen.

Peres, in Europe, Gets No Pressure on PLO

By James M. Markham
New York Times Service

BONN — A senior adviser to Prime Minister Shimon Peres has said that during the Israeli leader's tour of Western Europe, he has received no pressure from four heads of government to negotiate directly with the Palestine Liberation Organization.

The adviser said Tuesday that one of the most striking features of the 10-day trip was a declining interest in a role for Yasser Arafat's PLO in future peace talks.

Mr. Peres has had conversations with prime ministers Margaret Thatcher of Britain, Ruud Lubbers of the Netherlands and Felipe Gonzalez of Spain, and with Chancellor Helmut Kohl of West Germany. The Peres aide related that in the discussions, the Israeli leader had won praise for his efforts to seek talks with King Hussein of Jordan and moderate Palestinians not specifically linked to the PLO.

The meeting with Mr. Gonzalez took place in The Hague to mark the opening of diplomatic relations between Spain and Israel.

The Israeli adviser's remarks came as President Hosni Mubarak of Egypt, beginning a four-day European tour of his own, called on West European countries to participate in an international Middle East peace conference.

A European Community summit meeting in Venice in 1980 endorsed self-determination for the Palestinian people and urged that the PLO "be associated" with any peace talks on the Middle East. The Venice declaration, which also affirmed Israel's right to exist, has become a standard reference point for West European leaders.

In West Germany, Mr. Peres has struck a conciliatory note that accented future bilateral ties, not the trauma of the Nazi era and the murder of six million Jews. He spoke Tuesday of "remembering the past on the one hand but building a new future on the other hand."

According to the senior Israeli official, Mr. Kohl assured Mr. Peres in their private talks that reports that anti-Semitism was on the rise in West Germany were "totally false." The chancellor did not allude to remarks by a mayor from his Christian Democratic Party who recently suggested killing "a few rich Jews" to balance his town's budget.

Jewish leaders in Düsseldorf said Tuesday that they would bring charges against Count Wirsener von Spee, mayor of Kirschenbroich, who made the remark at a town council meeting on Jan. 16. The mayor later apologized.

■ **Peres Visits Berlin**

Mr. Peres traveled to West Berlin on Wednesday and, referring to the division of Berlin, said that "walls come, walls go, but the human spirit remains." The Associated Press reported.

After visiting the Schönberg city hall, Mr. Peres said that the distance between Israel and Germany was not only geographic but also emotional.

"It is a trip out of the darkness into the hope of light," he said. "I hope very much that this Germany will have a new people and a new future."

Most U.S. Oil Companies in Libya Are Reported to Suspend Exports

By Judith Miller
New York Times Service

TRIPOLI, Libya — Most of the American oil companies operating in Libya have temporarily halted exports of their entitled allotment of oil, according to business executives and diplomats. The move has potentially serious economic implications for Libya.

The executives and diplomats, who spoke on condition that they not be identified, said Tuesday that only one of the five U.S. oil companies operating in Libya was still exporting oil.

The suspension resulted from concern about the ramifications of President Ronald Reagan's economic sanctions against Libya and the plunge in the price of oil on the spot market from \$25 a barrel earlier in January to \$17 a barrel last week. Prices were just under \$20 a barrel Wednesday.

None of the American producers operating in Libya would comment on any aspect of their local operations. They are Occidental Petroleum Corp.; Amerasia Hess Corp.; Marathon Oil Co., a subsidiary of United States Steel Corp.; Conoco, a unit of Du Pont Co.; and Grace Petroleum, a subsidiary of W.R. Grace & Co.

U.S. Senate Held Certain To Block Arms to Jordan

By Sara Fritz
Los Angeles Times Service

WASHINGTON — Despite warnings that Congress is on the verge of disrupting the Middle East peace process, the chairman of the Senate Foreign Relations Committee, Richard G. Lugar, has advised the Reagan administration to withdraw its proposed arms sales to Jordan by Feb. 18 or face certain defeat in the Senate.

Mr. Lugar, an Indiana Republican, told Secretary of State George P. Shultz on Tuesday that he expected a resolution disapproving the sale to be introduced in the Senate on Monday, with a vote by Feb. 18, according to an aide. Mr. Lugar predicted that at least 75 senators would vote against the sale.

The resolution would end months of legislative maneuvering by Mr. Lugar and administration officials seeking to win congressional approval of the sale, which King Hussein of Jordan is to enter into peace talks with Israel. Senators Alan Cranston, a Democrat of California; Edward M. Kennedy, a Democrat of Massachusetts; and John Heinz, a Republican of Pennsylvania, will sponsor the measure.

Aides said that Mr. Lugar expected administration officials to decide by the end of the week whether they would risk defeat in the Senate or withdraw the proposal to sell \$1.9 billion in arms to Jordan, including advanced fighter aircraft as well as Sidewinder, Hawk and Stinger missiles.

Richard W. Murphy, assistant secretary of state for Near Eastern and South Asian affairs, told a House of Representatives subcommittee on Tuesday that a congressional vote against the sale at this time would have negative consequences in the Middle East.

Gorbachev Pushes Offer On Europe

By Celestine Bohlen
Washington Post Service

MOSCOW — Mikhail S. Gorbachev, the Soviet leader, has asserted that his proposal to eliminate U.S. and Soviet medium-range missiles in Europe would "unravel what is perhaps one of the most complicated tangles in present-day world politics."

At a dinner in honor of the visiting head of the Italian Communist Party, Alessandro Natta, Mr. Gorbachev singled out on Tuesday the European aspect of his Jan. 15 arms control proposal as an issue that could be settled "without delaying or burdening the matter with other problems."

The Jan. 15 proposal, setting out a timetable for ridding the world of nuclear weapons by the year 2000, advanced a new Soviet offer to eliminate both U.S. and Soviet missiles in Europe, leaving uncounted current French and British deployments.

An interim agreement on medium-range weapons in Europe had been endorsed by Mr. Gorbachev and President Ronald Reagan at their summit meeting in Geneva in November.

Mr. Gorbachev's language made clear Tuesday that the issue of missiles in Europe could be separated from other arms control issues now under negotiation.

His speech at the Kremlin dinner for Mr. Natta was his first since the Soviet plan was released on the eve of the resumption of arms control negotiations in Geneva.

Several Western leaders have cited the European proposal as one of the plan's more promising aspects since it removes the French and British arsenals from the equation.

The Soviet leader said that Moscow's opposition to a U.S. space-based defense system was not based on concerns about being left behind in a technological race.

"We have no fear that we shall lag behind in the space race if it is imposed on us," he said. "There is no need to test our military and technological potentialities one more time."

Instead, he said Moscow's opposition stemmed from the view that a space defense would not be effective, and it could be used as an offensive weapon.

Mr. Gorbachev said the Soviet leadership generally is satisfied by the reaction to the Jan. 15 proposal. But he assailed a "certain inertia of thinking" that he said had become an obstacle to disarmament.

"Habitual persuasions and traditionally held views that were possibly correct 30, 20 or even 10 years ago are now hopelessly outdated," said Mr. Gorbachev.

New Tremor Hits Soviet Asia

By Sara Fritz
Los Angeles Times Service

MOSCOW — A moderately strong earthquake struck the Soviet central Asian republic of Tadzhikistan on Wednesday. It occurred in the Kayrakum area, where a quake three months ago killed at least 29 people, the official press agency Tass said. No casualties were reported.

Reagan Seeks Increase in Foreign Aid Despite a Drive to Cut Budget Deficit

By David K. Shieler
New York Times Service

WASHINGTON — Despite a drive to cut the federal budget deficit, the Reagan administration has asked Congress to increase foreign aid by 12.5 percent over the current fiscal year, to a total of \$16.3 billion.

The aid request for the 1987 fiscal year, which begins Oct. 1, was sent to Capitol Hill this week. A copy was obtained from congressional sources.

In it, the administration calls for a doubling of military assistance to the Philippines and Guatemala, and modest increases in funds for other Central American countries, such as El Salvador and Honduras, which are seen by Washington as key obstacles to the spread of Soviet influence in the region.

In the Middle East, the large aid packages for Israel and Egypt would remain about the same as this year, with a total of \$2.3 billion requested for Egypt and \$3 billion for Israel. This year's aid to Israel was augmented by a supplemental authorization, bringing the total to \$3.75 billion. Israel remains the major recipient of U.S. assistance, followed by Egypt, Turkey, Pakistan and Greece.

The requests are expected to face some cutting by Congress, whose budget process now is dictated by the Gramm-Rudman-Hollings Act, which requires a balanced budget by the 1991 fiscal year and forces staged reductions in the deficit.

Under a 1983 agreement allowing continued U.S. use of Clark Air Base and Subic Bay Naval Base, the administration pledged to seek \$900 million in assistance for the Philippines over five years, to be divided between economic and military aid.

Last year's request for \$102.2 million in military aid was pared down by Congress to \$54.7 million, with some of the difference shifted to economic aid, which was authorized at \$184.2 million. This year's military request is \$102.7 million, just above the level requested last year, but nearly twice the amount authorized. The administration has asked for \$125.7 million in economic aid for next year.

The military request is especially likely to run into opposition, congressional sources said.

Congress also cut the military aid request for Guatemala last year from \$10.3 million to \$5.07 million. Now the administration has asked for \$10.5 million, possibly in the hope that the recent Guatemalan election of a civilian president, representing a move toward democracy, will improve the country's image. Economic aid to Guatemala also would rise under the request, from \$99.3 million this year to \$133.7 million.

El Salvador, which is fighting a leftist insurgency, would receive \$378 million in economic and \$136 million in military aid, up 18 percent from the total this year. Honduras would get \$158.8 million in economic and \$88.8 million in military aid, an increase of 37 percent.

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DEAN HENRY? IT'S ME, DONKER.
OH, SIR, YOU'VE COME.

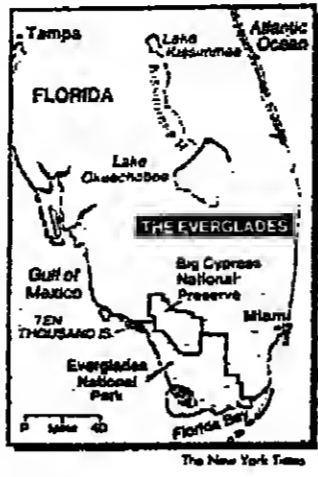
OF COURSE I'VE COME. HOW ARE YOU HOLDING UP, FRIEND?
TO BE HONEST, SIR, NOT SO WELL.

HAVE YOU EVER HAD AN AFFAIR OF THE HEART, SIR, ANYWHERE AFTER YEARS OF BEING CALLED AND LISTENING FROM AROUND THE DOORS OF PRESIDENTS? ONLY TO HAVE YOUR LOWER CREELLY SNATCHED AWAY BY THE FATES?
UM, WELL, LET ME SEE...
ME NEITHER, BUT HE CAME THAT CLOSE!

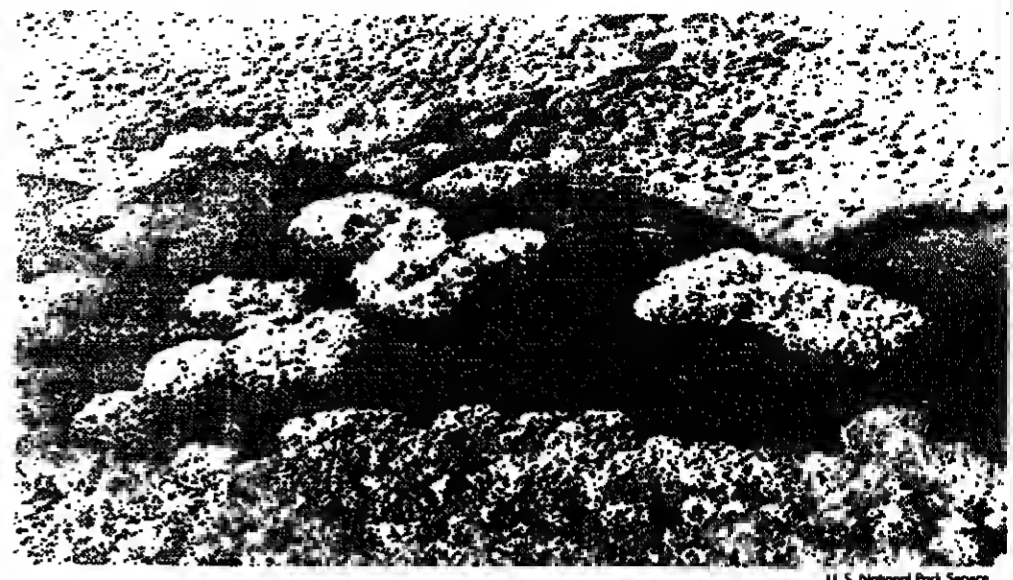
السنة الأولى

SCIENCE

Florida Project Aims to Preserve the Ecology of the Everglades



BRANCHES of mangrove trees, and the sand spits are thick with white and brown pelicans, terns, gulls, cormorants and sandpipers.



Massive ecological damage has been inflicted on the Everglades, scientists say.

IN BRIEF

Pioneers Less Subject to Heart Failure

CHICAGO (WP) — The 19th-century ancestors of a group of men with a genetic predisposition to high blood cholesterol levels lived longer than their descendants, according to a study by University of Utah geneticists.

Women's Sense of Smell Beats Men's

NEW YORK (WP) — It has been found that women can detect and differentiate odors with more accuracy than men, but a University of Pennsylvania study investigating the olfactory abilities of various races finds the female superiority to be universal.

Island Emerging in Hawaii Chain

LOS ANGELES (UPI) — A Hawaiian island now submerged beneath the sea is rising slowly in the Pacific in a volcanic process that will involve 2,000 years of quakes, explosions and lava eruptions.

New Technique to Speed Flight Tests

RENO, Nevada (UPI) — Researchers at Princeton University's department of Mechanical and Aerospace Engineering have developed a technique for calculating airflow that will enable aerodynamic engineers to determine the theoretical accuracy of their designs for aircraft at the computer terminal before constructing and testing prototypes.

By Philip Shabecoff
New York Times Service

MARCO, Florida — Work has begun on an ambitious effort to undo what officials describe as the nearly lethal damage inflicted on the Everglades by a century of development and exploitation.

The program calls for a river that has artificial channels to be restored to its original bed, for thousands of acres of drained marshland to be re-flooded, for lands cleared for housing and agriculture to be restored to their natural state and sustained efforts to bring back the Florida panther, or cougar, and other wild species, from the edge of extinction.

The state estimates that \$300 million will have to be spent just to acquire land under the program. A coalition of 17 major conservation groups is backing the program, which they regard not only as a last-ditch effort to save the Everglades but as a model for future programs to restore threatened or degraded ecological systems.

Paul C. Pritchard, president of the National Parks and Conservation Association, warned, "We have this year to do what we have to do to protect the Everglades."

The governor also said that the Everglades is a great national and international treasure, and called for increased federal support for its rescue.

which define its character," Mr. Graham said.

Saving the system means "undoing past mistakes," he said. "Success in this endeavor means turning back the clock 100 years," he said. "By the year 2,000, the Everglades will look and function more like they did at the turn of the century than they do today."

The Everglades has been called a "river of grass." Seen from the air, it looks like an endless prairie of green and gold, broken by silver-black patches of open water.

The Everglades wetlands, from the Kissimmee River Basin in central Florida, through big, shallow Lake Okechobee and into the Everglades proper, form a complex, fragile but unified 3-million-acre (1.2-million-hectare) ecological system.

The Everglades also contains the Big Cypress National Preserve, wildlife refuges, state parks and preserves, Seminole villages and private farms and homes.

The developers also sharply reduced the flow of water into the Biscayne Aquifer. One result has been a lowered freshwater pressure, allowing seawater to flow into the underground reservoir.

Another has been inadequate water to support the plant and animal life in the Everglades. By the 1970s, parts of the Everglades grew so dry they caught fire, sending thick smoke over the urbanized coastal areas.

A priority of the restoration program is the redirection of the Kissimmee's waters from its arrow-straight channel back into the old marshlands. Some berms and canals have already been installed, and in several areas water is spreading slowly over the countryside.

Mr. Graham said the cooperation of the Corps of Engineers was "essential" to restoring the Kissimmee. But the corps' district office

has recommended that it not participate in rechanneling the river.

Colonel Charles T. Myers 3d, district engineer, said the project failed to show sufficient economic benefit to warrant the corps' participation.

A second major project involves replacing an east-west highway that cuts across the heart of the Everglades with an Interstate built in a way that would allow the freer passage of water, and also of the Florida panther.

The highway, known locally as Alligator Alley, bisects the range of the remaining panthers, and nine have died in the past five years after being hit by cars. There are now only 22 Florida panthers known.

The new highway would have 36 overpasses for panthers at areas

where they have been known to cross the current road.

Steps have already been taken to allow the free flow of water into the Everglades National Park and Big Cypress National Preserve. Alteration of the natural water flow by state water-management agencies had a devastating impact on these parks' wildlife in the past, particularly on deer and alligators.

The restoration plan also calls for extensive land purchases to provide buffer zones for the park and the preserve.

Also contemplated and in some places already begun is the building of dikes and levees to redirect water onto drained farms and housing developments sites, restoring the natural flow in these areas.

One project not in the state's master plan but strongly urged at

the meeting here was the cleaning up of Lake Okechobee's water.

State officials and local environmentalists say the Everglades restoration project is popular among Floridians. Opposition comes mostly from homeowners or farmers who would be displaced by the restoration programs and by some local chambers of commerce that fear that opportunities for economic growth would be diminished.

Mr. Graham insisted that the state and federal governments had a duty to restore the Everglades. "Our obligation is not merely to the people of south Florida, nor to Floridians alone," he said. "The Everglades are a world treasure, home to rare and exquisite species of plants and animals, a region of scenic beauty which belongs to all peoples."

Fossil Find in Nova Scotia Is Continent's Largest

By Warren E. Leary
The Associated Press

WASHINGTON — Scientists have made the largest fossil find in North America, uncovering more than 100,000 bone pieces of animals 200 million years old at a site in Nova Scotia, the National Geographic Society announced Tuesday.

The fossils, representing the crucial period when dinosaurs emerged to become masters of the Earth, were discovered on the shores of the Bay of Fundy, north of the coast of Maine.

Paul E. Olsen, a geologist of Columbia University's Lamont-Doherty Geological Observatory, and Neil H. Shubin, a Harvard University biologist, led the field work that made the discovery last summer.

"Bones were sticking out all over the place. They were everywhere," Dr. Shubin said of the

site, located on the north shore of the bay near Parrishboro.

Some of the more significant finds so far are 12 skulls and jaws of trilobedonts, the reptiles closest evolutionarily to mammals. They are the first found in North America, and represent the largest single collection of these rare fossils in the world, the scientists said.

Other skulls, teeth, jaws and bones unearthed at the site along the water's edge belong to dinosaurs, ancient crocodiles, lizards, sharks and primitive fish. Also found was a series of footprints about the size of a penny made by a sparrow-sized dinosaur, the smallest dinosaur prints known anywhere.

The work, supported by the National Geographic and done in cooperation with the Nova Scotia Museum in Halifax, resulted in the trucking of three tons of rocks from the Canadian site

to the researchers' laboratories for further examination.

Only a small portion of these rocks have been examined in detail, the researchers said, and new specimens are uncovered every day.

The fossils represent life in the boundary between the Triassic period, which began 240 million years ago, and the Jurassic, which began 200 million years ago.

Reptiles were the dominant land creatures during the Triassic, and the earliest dinosaurs appeared toward the end of that period. By the beginning of the Jurassic, dinosaurs proliferated and dominated the Earth until they vanished 65 million years ago.

The scientists said the new findings point to a catastrophic extinction right at the Triassic-Jurassic boundary, such as an asteroid hitting the Earth, that wiped out more than 40 percent of the land and lake animals of the time.

Table: NYSE Most Actives. Columns: Vol., High, Low, Last, Chg. Lists top 10 most active stocks.

Table: Dow Jones Averages. Columns: Index, High, Low, Last, Chg. Lists various market averages.

Table: NYSE Index. Columns: High, Low, Last, Chg. Lists various NYSE indices.

Table: NYSE Diaries. Columns: Buy, Sell, % of Total. Lists trading activity.

Table: AMEX Diaries. Columns: Buy, Sell, % of Total. Lists trading activity.

Table: NASDAQ Index. Columns: Index, High, Low, Last, Chg. Lists NASDAQ market data.

Table: AMEX Most Actives. Columns: Vol., High, Low, Last, Chg. Lists top 10 most active stocks.

Table: Dow Jones Bond Averages. Columns: Index, High, Low, Last, Chg. Lists bond market averages.

Table: NYSE Diaries (continued). Columns: Buy, Sell, % of Total.

Table: Odd-Lot Trading in N.Y. Columns: Buy, Sell, % of Total.

Table: Standard & Poor's Index. Columns: Index, High, Low, Last, Chg. Lists S&P market data.

Table: AMEX Sales. Columns: Index, High, Low, Last, Chg. Lists AMEX sales data.

Table: AMEX Stock Index. Columns: Index, High, Low, Last, Chg. Lists AMEX stock index.

Table: 12 Month High/Low Stock. Columns: Stock, Div., Yld., PE, % Chg. Lists 12-month high and low for various stocks.

Early Gains Fade on NYSE

NEW YORK — Prices on the New York Stock Exchange were erasing a sharp advance late Wednesday in what appeared to be the heaviest trading so far this year.

Table: 12 Month High/Low Stock (continued). Columns: Stock, Div., Yld., PE, % Chg. Lists 12-month high and low for various stocks.

Advertisement for AMETEK. Text: 'Supercomputer power... for scientific and engineering calculations. Ametek's new concurrent processor puts minicomputer users in the big computer class for small dollars.' Includes AMETEK logo and contact information.

Wednesday's NYSE Closing

Tables include the nationwide prices up to the closing on Wall Street and do not reflect late trades elsewhere.

(Continued from Page 7)

Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American Express, American International, American National, etc.

Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American National, American Overseas, American Republics, etc.

Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American Republics, American Republics, American Republics, etc.

Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American Republics, American Republics, American Republics, etc.

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Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American Republics, American Republics, American Republics, etc.

REGULAR QUARTERLY DIVIDEND 57.5¢ per common share. Panhandle Eastern Corporation. Diversified in energy - natural gas transmission, oil and gas exploration and production, contract drilling, coal mining.

Table with columns: 12 Month High, Low, Stock, Div, Yld, PE, 52 Week High, Low, Open, Close. Lists various stocks like American Republics, American Republics, American Republics, etc.

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Weekly net asset value Tokyo Pacific Holdings N.V. on Jan. 27, 1986: U.S. \$154.40. Listed on the Amsterdam Stock Exchange.

REPUBLIC TUNISIEN MINISTERIUM FÜR VOLKSWIRTSCHAFT COMPAGNIE DES PHOSPHATES DE GAFSA. Internationale Ausschreibung.

EUROPEAN INVESTMENT BANK Luxembourg. DM 300,000,000 6% Deutsche Mark Bearer Bonds of 1986/1996.

Herald Tribune 2for1. Take advantage of our special rates for new subscribers and we'll give you an extra month of Tribes free with a one-year subscription.

REPUBLIC TUNISIEN MINISTERIUM FÜR VOLKSWIRTSCHAFT COMPAGNIE DES PHOSPHATES DE GAFSA. Internationale Ausschreibung. Details of the tender process.

EUROPEAN INVESTMENT BANK Luxembourg. DM 300,000,000 6% Deutsche Mark Bearer Bonds of 1986/1996. Offering details.

EUROPEAN INVESTMENT BANK Luxembourg. DM 300,000,000 6% Deutsche Mark Bearer Bonds of 1986/1996. List of participating banks.

Wednesdays NYSE Closing

Tables include the nationwide prices up to the closing on Wall Street and do not reflect late trades elsewhere.

Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

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Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

REGIE NATIONALE DES USINES RENAULT INTERNATIONAL ISSUE OF FF 200,000,000.- 7.25 % 1972/1987. We inform the bondholders that the March 15, 1986 repayment instalment of FF 22,000,000.- has been made by purchase on the market. Amount outstanding: FF 60,000,000.- THE PRINCIPAL PAYING AGENT SOCIETE GENERALE ALSACIENNE DE BANQUE Succursale de Luxembourg 15, Avenue Emile Reuter LUXEMBOURG

U.S. Futures

Fin The Associated Press

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Grains section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Metals section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Lumber section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Livestock section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Cattle section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Hogs section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Pork section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Food section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Currency Options section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Philadelphia Exchange section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Wheat section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Corn section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Soybean section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Soybean Meal section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Soybean Oil section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Soybean Meal section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Copper section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Aluminum section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Silver section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Gold section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. US 10 Year Treasury section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. US Treasury Bonds section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Japanese Yen section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Swiss Franc section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. British Pound section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Canadian Dollar section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Australian Dollar section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. New Zealand Dollar section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Japanese Yen section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Swiss Franc section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. British Pound section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Canadian Dollar section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Australian Dollar section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. New Zealand Dollar section.

Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

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Table with columns: 12 Month High, Low, Stock, Div. Yld. PE, High, Low, Close, Open, Change. Lists various stocks and their performance.

Industrials

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Lumber section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Cotton section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Meat section.

Table with columns: Season High, Season Low, Open, High, Low, Close, Chg. Rubber section.

London Commodities

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various commodities and their prices.

Paris Commodities

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various commodities and their prices.

Asian Commodities

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various commodities and their prices.

Stock Indexes

Table with columns: Index Name, Value, Change. Lists various stock indices.

Commodity Indexes

Table with columns: Index Name, Value, Change. Lists various commodity indices.

London Metals

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various metals and their prices.

Paris Metals

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various metals and their prices.

Asian Metals

Table with columns: High, Low, Bid, Ask, Price, Change. Lists various metals and their prices.

Taiwan Predicts Greater GNP Growth

TAIPEI - Taiwan's gross national product is expected to grow 6.3 percent this year because of rising domestic investment, the head of the Council for Economic Planning and Development, Chao Yao-tung, said Wednesday. He said the rate was higher than the government's target of 5.5 percent and compares with 4.7 percent growth in 1985.

Cash Prices

Table with columns: Commodity and Unit, Price, Change. Lists various cash prices.

Dividends

Table with columns: Company, Dividend, Yield. Lists various companies and their dividends.

S&P 100 Index Options

Table with columns: Strike, Bid, Ask, Price, Change. Lists various S&P 100 index options.

U.S. Treasuries

Table with columns: Maturity, Bid, Ask, Price, Change. Lists various U.S. Treasury securities.

To Our Readers

Floating Rates Notes were not available in this edition because of technical problems.

To Our Readers

The Deutsche mark futures options were not available in this edition because of transmission delays.

Handwritten text at the bottom center of the page.

BUSINESS ROUNDUP

Thyssen Net Up Sharply; Payout May Be Restored

By Warren Getler
International Herald Tribune
DUSSELDORF — Thyssen AG more than doubled net profit to 472.4 million Deutsche marks (\$196 million) in fiscal 1985, ended Sept. 30, from 181 million DM a year earlier, the chairman, Dieter Spethmann, said Wednesday.

a large market for Thyssen's continuously cast steel sheet, played a large role in the streamlined steel division's success.
Under "Concept 900," a consolidation strategy aimed at cutting annual steel capacity to about 11 million tons from 16 million tons, the company has shed around 10,000 jobs since 1983 through attrition and early retirement.

The sharp rise allowed Thyssen, a diversified group that is Europe's largest steelmaker, to recommend restoring a dividend of 5 DM.
The last dividend payout, to fiscal 1982, was 2 DM. In addition, the company said, it would allocate 293 million DM of profit to its reserves.

Thyssen's Budd unit, an automotive products group, saw a sharp swing from a 139-million-DM loss to a 158-million-DM profit in 1985. The comparison, however, is distorted because Thyssen unaccounted for the loss-making railway unit last year as a separate division, now called Transit America Inc.

Elf Aquitaine Reports Profit Fell 20% in '85
Agence France-Press
PARIS — Elf Aquitaine, France's largest oil company, posted a net profit in 1985 of 5.2 billion francs (\$706 million), a drop of 20 percent from 6.5 billion francs in 1984, the president, Michel Pecqueur, said Wednesday.

Elf officials attributed the slump in profits to declining gas production, the continuation of a special tax imposed in 1984 by the government and funds paid toward the settlement of a legal dispute in Guatemala.

Du Pont Posts 23.2% Gain In Earnings

WILMINGTON, Delaware — Du Pont Co. reported Wednesday that 1985 fourth-quarter net profit rose 23.2 percent to \$377 million, from \$306 million in the fourth quarter of 1984.

The company said that revenue for the quarter amounted to \$7.6 billion, up slightly from \$7.5 billion a year earlier. Per-share earnings were \$1.56, up from \$1.26.

Siemens Net Jumps 43%; Firm Seeks Capital Increase

MUNICH — Siemens AG reported Wednesday that world group net profit for the last fiscal year jumped 43 percent, to 1.53 billion Deutsche marks (\$637 million), from 1.07 billion DM the previous year.

Revenue for the year ended September 30, 1985 was 54.7 billion DM, a 19.4-percent increase from the year-earlier 45.8 billion, the company said.

Metal Exchange In London Says It Needs Loan

LONDON — The London Metal Exchange needs a bridging loan of about £300 million (\$421 million) from the British government to deal with the problems posed by the tin crisis, the exchange's chairman, Jacques Lion, said Wednesday.

The London exchange suspended trading after the tin council's buffer-stock manager ran out of funds.

New European Westland Bid

(Continued from Page 9)
hold about 23 percent of the shares. Thus, if the Lloyds offer fully succeeds, the consortium would almost certainly have enough votes to block the U.S.-Italian rescue.

Westland's chairman, Sir John Cuckney, has retorted that the company would rather collaborate with Sikorsky and Fiat than what he has described as "a protectionist European cartel."

\$2-Billion Investment Seen in Taiwan Funds

TAIWAN — Taiwanese companies and individuals are expected to invest at least \$2 billion by the end of June in mutual funds set up by three Taiwanese banks, a Bank of Taiwan official said Wednesday.

COMPANY NOTES

Allied-Signal Inc. expects to take a charge of up to \$700 million in the fourth quarter, giving it a loss for the year ended Dec. 31. It did not estimate the size of the loss. The company was formed last September by the merger of Allied Corp. and Signal Cos.

Mikumi Corp. to manufacture injection valves for the auto industry. The new company, to be called Nippon Injector KK, will be 40 percent owned by Melco, 30 percent by Mikumi and 30 percent by Bosch.

Texaco Inc.'s motion to have Judge Solomon Caseb Jr. removed from the case involving Texaco's dispute with Pennzoil Co. was denied by a Texas Judge, Judge Caseb presided over a jury trial in Texas last year that awarded Pennzoil \$10.5 billion in damages.

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Telex : 423 393
The change is effective from February 1st, 1986
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Moët-Hennessy

MOËT-HENNESSY ANNOUNCES STOCK DIVIDEND AND 1985 REVENUE INCREASE OF 12 PERCENT... RECONFIRMS EARNINGS GROWTH ESTIMATE OF 25 PERCENT
Paris, January 27, 1986 — A stock dividend of one additional share of common stock for every five shares was approved by the Moët-Hennessy Board of Directors at their January 22 meeting in Paris.

Latins Fall Deeper Into Debt Trap

(Continued from Page 9)
ducing budget deficits (by, among other things, reducing state subsidies, restraining inflation by eliminating wage indexation, curtailing capital outflows through realistic exchange rates and domestic interest rates.

provides interest-free loans to the poorest nations, a senior World Bank official said Wednesday, Agence France-Press reported from Paris.

which the IDA is an affiliate, said officials of 33 industrial and developing donor countries agree that the IDA's "key priority" should be to assist sub-Saharan Africa, now in the grips of a severe economic and development crisis.

But William R. Rhodes, a Citibank senior vice president who is overseeing the rescheduling agreements that would allow European banks to create new debt in place of interest payments not received rather than extending cash loans that are used to service the debt.

These are not "anti-growth policies," said Eduardo Wiesner Durán, the IMF's Western Hemisphere director. "These are typically growth actions. What can promote growth more than an exchange rate that makes it profitable to engage in the production of tradable goods? And what can be more pro-growth than encouraging realistic producer prices and assuring a minimum of domestic savings to finance private investment."

Company Results
Revenue and profits or losses, in millions, are in local currencies unless otherwise indicated.
Table with columns for Company Name, 1985 Revenue, 1985 Net Inc., 1985 Per Share, 1984 Revenue, 1984 Net Inc., 1984 Per Share.

IF YOU KNEW THAT REPUBLIC HAS THE HIGHEST CAPITAL TO ASSET RATIO OF ANY MAJOR U.S. BANK, YOU'D BE PHONING THEM TOO.
Republic National Bank of New York. Traditional banking in an age of change.
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Wednesday's AMEX Closing

Tables include the nationwide prices up to the closing on Wall Street and do not reflect late trades elsewhere. Via The Associated Press.

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

High	Low	Stock	Chg.	High	Low	Stock	Chg.
100 1/4	99 3/4	ADP	+	100 1/4	99 3/4	ADP	+

NOTICE OF REDEMPTION

To the Holders of

SYBRON OVERSEAS CAPITAL N.V.

8% Guaranteed Sinking Fund Debentures Due March 1, 1987

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of Article Three of the Indenture dated as of March 1, 1972 providing for the above Debentures, \$1,203,000 principal amount of said Debentures have been selected for redemption on March 1, 1986, through operation of the Sinking Fund at the redemption price of 100% of the principal amount thereof, together with accrued interest thereon to said date, each in the denomination of \$1,000 bearing serial numbers as follows:

DEBENTURES BEARING THE DISTINCTIVE NUMBERS ENDING IN ANY OF THE FOLLOWING TWO DIGITS:

12	14	16	24	44	46	48	57	61	65	70	76	82	87	89	91	96
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ALSO OUTSTANDING DEBENTURES BEARING THE FOLLOWING NUMBERS:

1117 2517 3617 4817 4917 5017 5517 5617 6717 6917 8117 8217 8917 9117 14817 14917

On March 1, 1986, the Debentures designated above will become due and payable in each coin or currency of the United States of America as at the time of payment shall be legal tender for the payment of public and private debts. Said Debentures will be paid, upon presentation and surrender thereof with all coupons pertaining thereto maturing after the redemption date, at the option of the holder either (a) at the corporate trust office of Morgan Guaranty Trust Company of New York, 13th Floor, 30 West Broadway, New York, N.Y. 10015, or (b) at the main offices of Morgan Guaranty Trust Company of New York in Brussels, Frankfurt/Main, London and Paris and Bank Mees & Hope N.V. in Amsterdam, Morgan Grenfell & Co. Limited in London, Credito Romagnolo S.p.A. in Milan, and Banque de Paris et des Pays-Bas pour le Grand-Duché de Luxembourg in Luxembourg. Payments at the offices referred to in (b) above will be made by check drawn on, or transfer to a dollar account with a bank in the City and State of New York. Any payment made by transfer to an account maintained by the payee with a bank in the United States may be subject to reporting to the United States Internal Revenue Service (IRS) and to backup withholding of 20% if payee not recognized as exempt recipient fail to provide the paying agent with an executed IRS Form W-8, certifying under penalties of perjury that the payee is not a United States person or an executed IRS Form W-9 certifying under penalties of perjury that the payee's taxpayer identification number (employer identification number or social security number, as appropriate). Those holders who are required to provide their correct taxpayer identification number on IRS Form W-9 and who fail to do so may also be subject to a penalty of \$50. Please therefore provide the appropriate certification when presenting your securities for payment.

Coupons due March 1, 1986 should be detached and collected in the usual manner. On and after March 1, 1986 interest shall cease to accrue on the Debentures herein designated for redemption.

SYBRON OVERSEAS CAPITAL N.V.

Dated: January 21, 1986

Japanese Firms Say Gas Project in Canada Dropped

Renews

TOKYO—Japanese and Canadian companies have agreed to drop a proposed liquefied natural gas project in Canada, Japanese companies involved in the project said Wednesday.

Kinichiro Tsukada, vice president of Chubu Electric Power Co., a potential major buyer of the gas, said that the four Japanese buyers made their decision because of uncertainty as crude oil prices continue to fall. He said the Japanese and Canadian sides failed to agree on pricing and financing guarantees for the project. He did not elaborate.

The other three buyers were Kyushu Electric Power Co., Chugoku Electric Power Co. and Toho Gas Co. The project called on suppliers to export 2.35 million tons of LNG a year produced in Alberta and British Columbia to Japan over 20 years from mid-1989.

Talks on the project were stalled for a while after the Canadian project manager, Dome Petroleum Ltd., dropped out in 1984. In May of last year, Nishio Iwai Corp. and four Canadian companies, Mobil Oil Canada Ltd., Petro-Canada Inc., West Coast Transmission Ltd. and Sunco Inc., set up a consortium to handle the project.

Bid for Distillers Is Extended

Renews

LONDON—Argyll Group PLC said Wednesday that it had received acceptances under its hostile bid for Distillers Co. of 10.7 million shares, or 2.95 percent of the total. The £1.8-billion (\$2.53-billion) offer is extended until Feb. 15.

INTERNATIONAL FUNDS (Quotations Supplied by Funds Listed) Jan. 29, 1986

Not every fund quotation is provided by the Funds listed with the exception of those based on issue prices. The majority of values indicate quotations of securities supplied: (A) - daily; (W) - weekly; (M) - bi-monthly; (R) - quarterly; (T) - triennially.

Fund Name	Quotation	Fund Name	Quotation
ALMAL MANAGEMENT	12.24	FLC European	12.28
ALMAVIT INVEST	12.24	FLC Eurobond	12.28
ALMAVIT INVEST	12.24	FLC Eurobond	12.28

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The Daily Source for International Investors.

INTERNATIONAL HERALD TRIBUNE

Soviet Union Intensifies Its Campaign Against NATO Missile Program

U.S. to Urge Flexibility on West Trade

SPORTS

Seagoing Disaster Whips Up the Winds of Change

By Rick Dietrich

International Herald Tribune

PARIS — Last year was supposed to belong to French ocean racing skipper Patrick Morvan. His boat, Jet IV, an aerodynamic wonder, was the fastest entry on the booming maxi yachting circuit. Morvan has been compared to Alain Prost, the world champion Formula One driver, and Jet IV likened to the Concorde. Not more. Morvan's luck ran out in the Bay of Biscay. Concerns about safety and expense cast doubt on the futures of man and boat. The saga of the 85-foot (25.9-meter) catamaran, smashed by heavy seas off Northern Spain after a nightmarish two-week voyage, is far from over. Jet IV has become the focus of a major debate to limit high-tech maxi racers in competition; some advocate banning them altogether. In December, Jet IV abruptly fell victim to an excess of speed and power in a general meeting between builders and sponsors, capping Europe's worst racing season in years. Morvan denied making a serious attempt at a trans-Atlantic speed record when news of the disaster hit the French press. Has preoccupation with speed, critics are asking, thrown safety to the winds? The disaster strengthens the call for a return to boats that are less speed-oriented. While skipper and architects make plans for the '86 racing season, Morvan and others like him grudgingly acknowledge that the rationale of hyperfast maxi racing is undergoing serious rethinking. Already launched is a process to shear the speed yachts' lengths and reduce their masts, but sponsors aren't convinced. For Roger Caille, and the French-owned air transport firm Jet Services, sponsors since 1979, the latest accident is a blow to purse and morale. Both builders and company insiders say there will not be another maxi Jet.

New York race, Jet IV was 100 miles ahead of Ker Cadelec and Formule Tag when its wing-mast broke loose under 55 tons of by-draulic pressure. "The odds of that happening are one in 2,000," says Serge Mader, who crewed for Jet II and helped build Jet IV. Three days later, Formule Tag took the gun and \$400,000 first-prize money; 30 hours astern, Morvan finished third. Morvan repaired his rigging and, on Dec. 16, Jet IV returned to a stormy winter Atlantic. Four days out of New York, the odds of the lower rigging broke. "The whole shroud could have broken at any moment," said Morvan, who holed up in the Azores for two days until a new shroud arrived and then made for France. "We didn't put up the genoa [headsail]," said Morvan. "We didn't want to exceed 20 knots."

Yet the final 400 miles were all but surreal. December 30, 7:55 P.M. Seas rising from 20 feet to 40, winds up from 40 knots to 70. Jet IV was soaring off waves at 15-18 knots with the mainsail double-reefed. In a half-mile patch of ominously gathering darkness, the crew waited—Jean-Luc Nelias at the helm, Paul Watine and Jean Castagne in the forward cockpit, Marc Guillemot and Cyril Benoit all, behind Nelias. Morvan sent out a distress call: "Mayday! Mayday!" And then disaster struck. "Suddenly," recalled Nelias, "it became very dark. There was a storm, a lot of lightning that blinded us and a lot of wind behind." The force of the wind flattened him against the wheel. Nelias recalls "a squall burst of 70 to 100 knots—it was all over in five seconds, fast and hard." Unable to accelerate, Jet IV bowed into a wave, flipped forward—



Patrick Morvan: "We just wanted to make good time."

Union to Challenge Patriots' Drug Plan

Compiled by Our Staff From Dispatches

WASHINGTON — Gene Upshaw, executive director of the National Football League Players Association, said Tuesday that the union will vigorously oppose efforts by the New England Patriots to implement random drug testing of the team's players. "The collective bargaining agreement imposed on players as a result of this Patriots' testing program is illegal and invalid, and we will fight it," Upshaw said. "The collective bargaining agreement must affect all players and clubs equally in order for this system to work. We can't let management pressure individual players into personal agreements," he said. The Patriots reportedly approved a proviso calling for a one-year suspension of any player who is treated for drugs on or becomes "clean" but who fails a subsequent drug test. "I have to think of all the players. The Patriots don't have the authority to establish a drug-testing program. If they suspend for a year in Boston [for failing drug tests], what will they do in the next city — shoot you? Kill your first born in the next city after that? We can't have this vigilante approach," Upshaw said. "Raymond told the team you had the names and the facts, and that in many cases they were the same facts he had," Sullivan said. "The players involved took the risk in the first place, and we never told them they had any guarantee that you would not use their names."

Upshaw said Berry had "broken faith" by appealing to his players at a moment when they were "particularly vulnerable." "The day after their 46-10 Super Bowl loss to the Chicago Bears, he said, "Practically everyone voted for it, except those who felt their responsibility to the union was too great," said Wooten. "The guys with the [drug] problems were the first ones to support the plan, and that speaks for itself." (AP, UP)

SCOREBOARD

Basketball

Table with columns for NBA Leaders, NBA Standings, and National Hockey League Leaders. Includes team names, scores, and player statistics.

Hockey

Table with columns for National Hockey League Leaders, including team names, goals, assists, and points.

Big Man, Little Man Bring Bullets to Life

By Thomas Boswell

WASHINGTON — Just six weeks ago, they still were basically the Washington Bullets: slow, earthbound, and dull. But suddenly they're exciting, fast, high-flying and perhaps on the brink of being better than good. Amazing what one 7-foot-7 (2.31-meter) center and one little bald guard can do. On the day Jeff Ruland broke his ankle in December, Manute Bol was just a giant curiosity, a futuristic project, a National Basketball Association sideshow. And Leon Wood was a benchwarmer in Philadelphia.

Now, in the words of General Manager Bob Ferry, Bol is "already the greatest shot-blocker in the history of the NBA," and "hiring injury could end up the greatest defensive player who ever lived." Wood, the flashy, daring former Olympian, has averaged 18 points in just 24 minutes a game. He has shaved his head the day his Philadelphia exile ended and has brought a smooth new look to the Bullets back court ever since. When Ruland left, the Bullets were struggling to be decent. "Now there's no telling how far this team can go," says the all-star, ready to bring his 21 points, 12 rebounds and 6 assists a game back to the lineup.

To be a Bullet these days is to be happy every time you imagine the future — and to get angry every time you think about the present. To a man, the Bullets are mad because so few folks come to see them. For instance, only 7,038 people saw Bol block 15 shots (the second-highest total in league history) against Atlanta recently. That's a pretty pathetic crowd for a Saturday night against a 600 opponent. In the last two years, three huge leapers have joined the Bullet front court: Dan Roundfield, who once erased 176 shots in a year; Cliff Robinson, who's also gone over 100 in a season, and 6-9 reserve Charles Jones, who's one of the best half-court rejecters (per minute) in the NBA. Mix in defensive star Dudley Bradley and the 6-10 Ruland, and you've got a team that might average double-figure in-year-faces.

The most delighted Bullet of all is the characteristically stoic, 250-pound (113.4-kilogram) Ruland. On Tuesday, the New Orleans Saints named Jim Mora to replace Coach Wade Phillips, who took over when his father, Bud, resigned in November, Mora, 49, coached the Stars of the United States Football League to 52 victories over three years, including back-to-back championships first at Philadelphia and then in Baltimore. Potvin Sets Defenseman Goal Record UNIONDALE, New York (AP) — Denis Potvin set the National Hockey League record for career goals by a defenseman in helping the New York Islanders rout Toronto, 9-2, here Tuesday night. Potvin's 271st career goal, on a 40-foot second-period slapshot, broke Bobby Orr's record. Orr played parts of 12 seasons with the Boston Bruins and Chicago Black Hawks; Potvin is in his 13th season. The two played together for six games before Ruland's injury; the Bullets' only loss came in overtime to Philadelphia after Bol fouled out. Back then, of course, one of the players deep on the 76ers' bench was Wood. When Shue thinks of all the new combinations and strategies at his disposal, he gets a little excited tone in his voice — "the one that's been there ever since Bol blossomed, Wood arrived and Ruland said he's all going to work."



Manute Bol, the Washington Bullets' 7-foot-7 center, putting the block to Dominique Wilkins of the Atlanta Hawks.

Transition

BASEBALL: Baltimore Orioles signed Jim Belushi, outfielder. BOSTON — Signed Al Nipper, Mike Brown and Bill Sellers, pitchers; Sam Herr, first baseman, and John Christensen, outfielder. MINNESOTA — Signed John Butcher, pitcher, to a one-year contract. TORONTO — Signed Rick Leach, outfielder. BOSTON — Signed Don Porter, catcher, to a one-year contract. PITTSBURGH — Signed Keith Lincecum, outfielder. NATIONAL LEAGUE: LOS ANGELES — Signed Bobby Castillo and Dennis Powell, pitchers; Stu Peterson, Raul Brayan, Mike Ramsey and Reggie Williams, outfielders, and Jim Hamilton, infielder. NATIONAL LEAGUE: ST. LOUIS — Agreed to terms with Mike Fitzgerald, catcher, and John Spivey, pitcher, on one-year contracts. PITTSBURGH — Signed Kenneth C. Curcio, vice-president for Pirates, effective April 1. SAN DIEGO — Signed Dave Loria, outfielder. NEW HAVEN — Signed Chris Davis, outfielder, to a one-year contract. SAN FRANCISCO — Signed Chih Davis, outfielder, and Jose Uribe and Rob Thompson, infielders, to one-year contracts.

NHL Standings

Table with columns for NHL Standings, including team names, wins, losses, and points.

Tennis

Table with columns for U.S. Pro Indoor Tournament (AT Philadelphia), Selected College Scores, and Tennis results for various tournaments.

Soccer

Table with columns for Soccer results, including team names and scores.

SPORTS BRIEFS

NFL Eagles Hire Bears' Ryan as Coach PHILADELPHIA (AP) — Buddy Ryan, architect of the defense of the Super Bowl champion Chicago Bears, on Wednesday was named the head coach of the Philadelphia Eagles. The signing of Ryan, who had an 18-year career as an assistant coach the Bears, Minnesota and New York Jets, ended a search that began after Mario Campbell was fired Dec. 15. Ryan, 51, spent the last eight years with Chicago; he was given much of the credit for the Bears' 181 record and National Football League title this season. On Tuesday, the New Orleans Saints named Jim Mora to replace Coach Wade Phillips, who took over when his father, Bud, resigned in November, Mora, 49, coached the Stars of the United States Football League to 52 victories over three years, including back-to-back championships first at Philadelphia and then in Baltimore. Potvin Sets Defenseman Goal Record UNIONDALE, New York (AP) — Denis Potvin set the National Hockey League record for career goals by a defenseman in helping the New York Islanders rout Toronto, 9-2, here Tuesday night. Potvin's 271st career goal, on a 40-foot second-period slapshot, broke Bobby Orr's record. Orr played parts of 12 seasons with the Boston Bruins and Chicago Black Hawks; Potvin is in his 13th season. The two played together for six games before Ruland's injury; the Bullets' only loss came in overtime to Philadelphia after Bol fouled out. Back then, of course, one of the players deep on the 76ers' bench was Wood. When Shue thinks of all the new combinations and strategies at his disposal, he gets a little excited tone in his voice — "the one that's been there ever since Bol blossomed, Wood arrived and Ruland said he's all going to work."

